

### **ABSTRACT OF THE DISCLOSURE**

An organic light emitting diode display includes a substrate; a plurality of OLEDs formed on the substrate, the OLEDs emitting polarized light wherein the OLEDs comprise a layer defining a periodic grating structure; a first  
5 electrode layer conforming to the grating structure; an OLED material layer formed over the first electrode layer and conforming to the grating structure; and a second electrode layer formed over the OLED material layer and conforming to the grating structure, wherein the first and/or second electrode layers are metallic layers, whereby the periodic grating structure induces surface plasmon cross  
10 coupling in the metallic electrode layer(s) to emit polarized light; and a polarizer located over the substrate through which the polarized light is emitted.